

DCA13MR002
Conrail - Shared Assets
Derailment/Hazardous Material Release
Paulsboro, New Jersey
November 30, 2012

Hazardous Materials Group Factual Report

ATTACHMENT 15 - CERTIFICATE OF
CONSTRUCTION FOR UTLX 207398

APPLICATION FOR APPROVAL AND CERTIFICATE OF CONSTRUCTION

Page 1 of

1 APPROVAL REQUESTED OF: ☒ PRECEDENT 2 TYPE: ☒ CONSTRUCTION ☐ WELDED REPAIRS 3 AAR NO. **F-067040 Rev. A**
☐ NON-PRECEDENT ☐ ALTERATION ☐ OTHER 4 DATE: **12/19/2006**
☐ CONVERSION 5 APPLICANTS NO. **5907**
6 APPLICANT: **UNION TANK CAR COMPANY, 151st and RAILROAD AVE, EAST CHICAGO, IN 46312** 7 TANK SPECIFICATION: **DOT/TC 111A100W**
8 STENCILED SPEC. **DOT 111A100W1**
9 REPORTING MARKS AND CAR NUMBERS: **UTLX 207158-207545, PROX 44128-44179** 10 NUMBER OF CARS **440**

11	Initial Commodity	ETHANOL*	12	Density, lb., per gal	6.6
13	Full Water Capacity, gal	30,000	14	Dome Capacity or Outage, gal	173.24b
15	Material Type and Grade - Heads	A-516-70	16	Material Type and Grade - Shell	TC 128-B
17	Material Thickness - Heads, in.	15/32	18	Material Thickness - Shell, in.	7/16
19	Lining Type	NONE	20	Inside Diameter - Center, in.	119 3/16
21	Inside Diameter - End Rings, in.	119 3/16	22	Head Radius, Main, in. (if not 2:1)	
23	Test Pressure, psi	165	24	Insulation Type	NONE
25	Insulation Thickness, in.	NA	26	Thermal Conductivity, Btu-in./hr-sq.ft.-F	NA
27	Type and Number of Pressure Relief Devices	VALVE (1)	28	Pressure Relief Device Start-to-Discharge, psi	165
29	Pressure Relief Device Flow Capacity, cfm required	26,292 (8.1.1.1a)**	30	Pressure Relief Device Flow Capacity, cfm, actual	38,902
31	Tank Surface Area, sq. ft.	1,757	32	Underframe or Stub Sill Type	UTL ZBG
33	Center of Gravity, Loaded, in.	89.86	34	Estimated Light Weight, lb.	65,900
35	AAR Clearance Diagram	C	36	Rail Load Limit, lb.	263,000
37	Truck Capacity, tons	100	38	Head Shields	NONE

NOTES: * AND PRODUCTS AUTHORIZED BY DOT PART 173 FOR WHICH THERE ARE NO SPECIAL COMMODITY REQUIREMENTS AND NON-REGULATED COMMODITIES COMPATIBLE WITH THIS CLASS OF CAR.

**SAFETY VALVE SIZED USING DEFAULT VALUES.

Original Certificate _____

Builder _____

Date _____

Former Lading _____

The Following Drawing Apply:

- 39 General Arrangement
 40 Tank Arrangement
 41 Reinforced Openings, Including Calculations
 42 Anchorage, Including Calculations
 43 Fittings Arrangement
 44 Manway Assembly
 45 Protective Housing
 46 Venting, Loading, and Discharge Valves
 47 Pressure Relief Devices
 48 Heater Systems (Int. ☐ Ext. ☐)
 49 Gauging Devices
 50 Bottom Outlet Valve 4" UFPFR2236TM
 51 Calculations
 52 Manway Cover
 53 Calculations
 54 Tank Qualification Drawing

The Following Prior Approvals Apply:		
Drawing Number	Drawing Number	Application/Certificate No.
507185A-01	506677J	L-067015
507110A-01	506867B	L-067015
X8537A X8535A		L-027053, L-027053
N.A.		
See Page 2		
506946A		L-067015
505643B		L-047053A
502846B-04, 06		L-007066
UTC 501605B-02, 506831A		SRD987090, L-067015
NONE		
See Page 2		
503674A-01, 506854A		E-027046, L-067015
X8536B X8539B		L-047054, L-047054
506926A		E-047023
X8534A		L-027053
X8425A		L-017023

REVISIONS: A; 3/8/07 Moved line 49 to page 2.

APPLICATION BY: **Stephen Reitzell**

I certify that the foregoing conforms to all applicable DOT and AAR requirements including specifications, regulations, rules of interchange, and the DOT Railroad Safety Appliance Standards.

SIGNATURE _____

TITLE **AAR/DOT Coordinator**

APPROVAL - AAR Tank Car Committee

Date Approved

APR 13 2007

(Signature) on behalf of Tank Car Committee

CERTIFICATION: The cars enumerated below conform to the above approved description and to all applicable DOT and AAR requirements, including specifications, regulations, rules of interchange, and the DOT Railroad Safety Appliance Standards. Copy of this Certificate of Construction will be furnished to the owner and others as required by 49 CFR Part 179.5 before these cars are placed in service.

Initials and Car Numbers:

UTLX 207158-207545 & PROX 44128-44179

Name _____

Title **Quality Assurance Manager**

Drawing Number	Precedent Drawing Number	Precedent Application Number	Remarks
Line 43	Fittings Arrangement	506727A L-057039B PROX 44128-44179 506572B L-057039B UTLX 207158-207545	
Line 49	Gauging Device	E-002003	Midland B612 Gauging Device PROX 44128-44179 (52 cars) Visual Bar UTLX 207158-207545 (388 cars)
507185A-01	506677H	L-067015	The cars are the same size and basic design. The differences are the precedent has a different tank drawing and the bottom unload assembly is now listed as a traveler option. There is a new air brake assembly due to the change on the tank drawing.
507110A-01	506867B	L-067015	The support S/A brake rod lever was moved towards the center line of the car. To maintain the top of rail distance we had to shorten the bracket legs because it is a funnel flow car.
		E-987000	UTC 304 S.S. 3/4 PSI Vacuum Relief Valve (Part No. 98751-10)


APPLICATION BY : Stephen Reitzell

I certify that the foregoing conforms to all applicable DOT and AAR requirements including specifications, regulations, rules of interchange, and the DOT Railroad Safety Appliance Standards.

SIGNATURE TITLE AAR/DOT Coordinator

APPROVAL - AAR Tank Car Committee

Date Approved

APR 13 2007
(Signature) on behalf of Tank Car Committee